

English Translation

Jagat Guru Nanak Dev Punjab State Open University, Patiala

(Established by Act 19 of 2019 of Legislature of the State of Punjab)

Email ID registrar@psou.as.in
Contact No. 9463352523

Ref No. PSOU/Admin./2022/.../505

Dated : 14.03.2022

To

The Principal,
Shaheed Major Harminderpal Singh Government College,
Sahibzada Ajit Singh Nagar.

Subject: Regarding grant of affiliation for making admissions in the Certificate/Diploma Courses for the cycle of January, 2022.

Ref : Regarding your letter No. 4383 dated 09.03.2022.

In view of the subject cited above and letter under reference your institution (college) has been granted permission to make admissions in the Certificate/Diploma Courses for the cycle of January, 2022 :-

1. Certificate/Diploma Course in Software Development and Programming.

The approval for admission in the above mentioned courses is granted on the basis of the the following conditions:

1. This affiliation is granted to the College solely for making admission in the above mentioned course.
2. The College will follow the instructions regarding requisite syllabus and fee etc issued by the University from time to time in letter and spirit.
3. The college will be reposable for verifying the qualifications laid down by the university and requisite certificates of the admitted students in these courses.
4. After the admissions in these courses, a complete List/Return(with

Principal
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

English Translation

complete details) of the students along with requisite fee etc will be made available to the University at the earliest.

5. The Coordinator, Learner Support Centre appointed by the affiliated college will provide information about the students within the stipulated time as demanded from time to time by the university.
6. The college will charge the fee from the students as prescribed by the university only.
7. The college will be responsible for preparing the students according to the syllabus eg theory, practical, viva voce, heads on training and for following the rules and regulations with regard to their admissions, registration, academic examinations etc.
8. The college will be responsible for fulfilling the requisite rules for conduct of university examinations and for making requisite arrangements (along with online examinations) etc.
9. Apart from the above, the university may issue revised/new instructions to the college regarding these Courses any time.
10. In case the college does not follow the instructions mentioned above or issued from time to time, the University may cancel its affiliation.

Sd/-
Registrar

Hamid G. I
Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

Original

15/3/2022

22/03/2022

22/03/2022
15/3/2022



**JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY
PATIALA**

(Established by the Act No. 19 of 2019 of the Legislature of the State of Punjab)

Email ID registrar@psou.ac.in

Contact No. 94633 52523

Ref No. PSOU/Admin./2022/.../505

Dated : 14.03.2022

ਵੱਲ:

ਪ੍ਰਿੰਸੀਪਲ,
ਸਰਦੀ ਮੇਜਰ ਹਰਮਿੰਦਰਪਾਲ ਸਿੰਘ ਸਰਕਾਰੀ ਕਾਲਜ,
ਸਾਹਿਬਜ਼ਾਦਾ ਅਜੀਤ ਸਿੰਘ ਨਗਰ।

ਵਿਸਾ: ਸਰਟੀਫਿਕੇਟ/ ਡਿਪਲੋਮਾ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲੇ ਕਰਨ ਲਈ ਜਨਵਰੀ 2022 cycle ਦੀ ਮੰਨਜ਼ੂਰੀ (Affiliation) ਦੇਣ ਸਬੰਧੀ।

ਹਵਾਲਾ : ਆਪ ਜੀ ਦਫਤਰ ਤੋਂ ਪ੍ਰਾਪਤ ਪੱਤਰ ਨੰ. 4383 dated 09.03.2022 ਸਬੰਧੀ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਅਤੇ ਹਵਾਲਾ ਅਧੀਨ ਪੱਤਰ ਦੇ ਸਨਮੁੱਖ ਆਪ ਜੀ ਦੀ ਸੰਸਥਾ (ਕਾਲਜ) ਨੂੰ ਜਨਵਰੀ 2022 cycle ਲਈ ਹੇਠ ਲਿਖੇ ਸਰਟੀਫਿਕੇਟ/ ਡਿਪਲੋਮਾ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲੇ ਕਰਨ ਲਈ ਮਨਜ਼ੂਰੀ (Affiliation) ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ:-

1. Certificate/ Diploma Course in Software Development and Programming.

ਉਕਤ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲੇ ਦੀ ਮੰਨਜ਼ੂਰੀ ਹੇਠ ਲਿਖੀਆਂ ਸ਼ਰਤਾਂ ਦੇ ਅਧਾਰ ਤੇ ਦਿੱਤੀ ਜਾ ਰਹੀ ਹੈ:-

- ਕਾਲਜ ਨੂੰ ਮੰਨਜ਼ੂਰੀ (Affiliation) ਕੇਵਲ ਉਕਤ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲਾ ਕਰਨ ਲਈ ਦਿੱਤੀ ਗਈ ਹੈ।
- ਕਾਲਜ ਵੱਲੋਂ ਯੂਨੀਵਰਸਿਟੀ ਦੁਆਰਾ ਇਹਨਾਂ ਕੋਰਸਾਂ ਸਬੰਧੀ ਨਿਰਧਾਰਤ ਸਿਲੇਬਸ, ਫੀਸ ਆਦਿ ਸਬੰਧੀ ਸਮੇਂ-2 ਤੇ ਜਾਰੀ ਦਿਸ਼ਾ ਨਿਰਦੇਸ਼ਾਂ ਦੀ ਇੰਨ-ਬਿਨ ਪਾਲਣਾ ਕੀਤੀ ਜਾਵੇਗੀ।
- ਇਹਨਾਂ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲ ਹੋਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਯੂਨੀਵਰਸਿਟੀ ਦੁਆਰਾ ਨਿਰਧਾਰਤ ਕੀਤੀ ਗਈ ਯੋਗਤਾ ਅਤੇ ਸਬੰਧਿਤ ਸਰਟੀਫਿਕੇਟ ਤਸਦੀਕ ਕਰਨ ਦੀ ਜ਼ਿੰਮੇਵਾਰੀ ਕਾਲਜ ਦੀ ਹੋਵੇਗੀ।
- ਇਹਨਾਂ ਕੋਰਸਾਂ ਵਿੱਚ ਦਾਖਲੇ ਕਰਨ ਉਪਰੰਤ ਵਿਦਿਆਰਥੀਆਂ ਦੀਆਂ ਲਿਸਟਾਂ/ ਰਿਟਰਨ (ਪੂਰਨ ਵੇਰਵਿਆਂ ਸਮੇਤ) ਅਤੇ ਨਿਰਧਾਰਿਤ ਫੀਸ ਆਦਿ ਨਾਲ ਤਰੁੱਤ ਯੂਨੀਵਰਸਿਟੀ ਨੂੰ ਮਹੁਈਆਂ ਕਰਵਾਈ ਜਾਵੇਗੀ।
- ਯੂਨੀਵਰਸਿਟੀ ਦੁਆਰਾ ਸਮੇਂ-2 ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਸਬੰਧੀ ਮੰਗੀ ਗਈ ਜਾਣਕਾਰੀ ਕਾਲਜ ਵੱਲੋਂ ਨਿਯੁਕਤ Learner Support Centre ਦੇ ਕੋਆਰਡੀਨੇਟਰ ਦੁਆਰਾ ਨਿਰਧਾਰਿਤ ਸਮੇਂ ਸਿਰ ਮਹੁਈਆਂ ਕਰਵਾਈ ਜਾ ਜਾਵੇਗੀ।
- ਕਾਲਜ ਵੱਲੋਂ ਵਿਦਿਆਰਥੀਆਂ ਤੋਂ ਕੋਲੋਂ ਕੇਵਲ ਯੂਨੀਵਰਸਿਟੀ ਦੁਆਰਾ ਨਿਰਧਾਰਿਤ ਫੀਸਾਂ ਹੀ ਵਸੂਲੀਆਂ ਜਾਣਗੀਆਂ।
- ਯੂਨੀਵਰਸਿਟੀ ਦੇ ਸਿਲੇਬਸ ਅਨੁਸਾਰ ਜਿਵੇਂ ਬਿਊਰੀ, ਪ੍ਰੈਕਟੀਕਲ, ਵਾਇਵਾ, ਹੈਂਡਸ ਆਨ ਟੈਰੀਨਿੰਗ ਆਦਿ ਮੁਤਾਬਿਕ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਤਿਆਰੀ ਕਰਵਾਉਣਾ ਅਤੇ ਉਹਨਾਂ ਕੋਲੋਂ ਦਾਖਲੇ, ਰਜਿਸਟਰੇਸ਼ਨ, ਅਕਾਦਮਿਕ, ਪ੍ਰੀਖਿਆਵਾਂ ਆਦਿ ਸਬੰਧੀ ਯੂਨੀਵਰਸਿਟੀ ਦੁਆਰਾ ਬਣਾਏ ਨਿਯਮਾਂ ਅਤੇ ਲੋੜਾਂ ਦੀ ਪਾਲਣਾ ਕਰਵਾਉਣਾ ਕਾਲਜ ਦੀ ਜ਼ਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- ਇਮਤਿਹਾਨਾਂ ਸਬੰਧੀ ਯੂਨੀਵਰਸਿਟੀ ਵੱਲੋਂ ਨਿਰਧਾਰਿਤ ਮਾਪਦੰਡਾਂ ਨੂੰ ਪੂਰਾ ਕਰਨਾ ਅਤੇ ਲੋੜੀਂਦੇ ਪ੍ਰਬੰਧ (ਸਮੇਤ ਆਨਲਾਈਨ ਪ੍ਰੀਖਿਆਵਾਂ) ਆਦਿ ਕਰਨਾ ਕਾਲਜ ਦੀ ਜ਼ਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- ਉਕਤ ਤੋਂ ਇਲਾਵਾ ਯੂਨੀਵਰਸਿਟੀ ਵੱਲੋਂ ਕਿਸੇ ਸਮੇਂ ਵੀ ਕਾਲਜ ਨੂੰ ਇਹਨਾਂ ਕੋਰਸਾਂ ਸਬੰਧੀ ਸਮੇਂ-2 ਤੇ ਹਦਾਇਤਾਂ ਜਾਰੀ ਕੀਤੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।
- ਜੇਕਰ ਕਾਲਜ ਉਕਤ ਦਰਸਾਈਆਂ ਜਾਂ ਸਮੇਂ-2 ਤੇ ਯੂਨੀਵਰਸਿਟੀ ਵੱਲੋਂ ਜਾਰੀ ਕੀਤੀਆਂ ਹਦਾਇਤਾਂ ਦੀ ਪਾਲਣਾ ਨਹੀਂ ਕਰਦਾ ਤਾਂ ਯੂਨੀਵਰਸਿਟੀ ਵੱਲੋਂ ਉਸ ਦੀ ਮਾਨਤਾ ਰੱਦ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।

ਰਜਿਸਟਰਾਰ

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

allama
Harjeet 947

To

The Principal,
SMHS Govt College,
SAS Nagar.

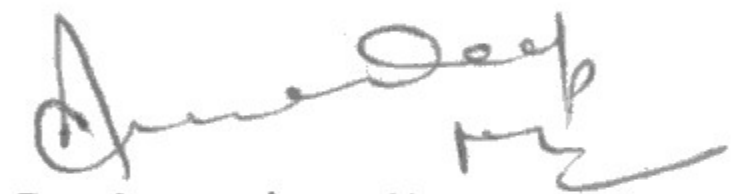
Subject: Certificate Course in Software Development and Programming demanding by Students.

Dear Mam,

As per Memo No. 08-01-2022-3 edu:1/66 dated 07-01-2022 of the Higher Education Department of Punjab, the college has started new certificate courses of Jagat Guru Nanak Dev Punjab State Open University, Patiala. Students of our college want to enroll themselves in Certificate Course in Software Development and Programming. So as per the demand of students kindly allow me to initiate the process of the above course

Thank you

Your's Sincerely



Dr. Amandeep Kaur

Co-ordinator (College)

Attached : Applications of Students to take admission in Software Development and Programming

Harjeet Goyal

Principal
SMHS Govt. College
Sahibzada Ajit Singh Nagar

To

The Principal,
SMHS Govt. College,
Mohuli.

Respected Mam,

We are the students of BCA
in your college. It is our request you to
start the Software development Program in our
College and allow us to take admission in
this course. We will be very thankful to you.

Yours Sincerely

Jaspreet Kaur
Rann Bhattar

Simar Kaur
Shruti

Gurpreet Singh

Jagdeep Kaur

Nikhil Kumar

Vineet Singh

Vardana Devi

Karanvir Singh

Gurjit Singh

Sakshi Rathore
raini

Ajay Kumar
Palak Saini

Bennet Singh

Renee Devi
Harsh Bhojpath
Manisha

Gunmukh Singh

Mangot Singh

Pawanpreet Kaur

Manmeet Kaur

Aishdeep Harjeet Anjial

Satnam Singh

Harpreet Kaur

Parmmeet Kaur

Darshan

Jagdeep Kaur

Aspangot

Sukhchain Singh

Ashwami

Mukesh

Prabhjot

Jaspal Singh

Priyanka

Kapil

Principal

SMHS Govt. College

Sambzada Ajit Singh Nagar

ਸ਼ਹੀਦ ਮੇਜਰ ਹਰਮਿੰਦਰਪਾਲ ਸਿੰਘ (ਸੌਰਿਆ ਚੱਕਰ),

ਸਰਕਾਰੀ ਕਾਲਜ ਫੇਜ਼-06,

ਸਾਹਿਬਜ਼ਾਦਾ ਅਜੀਤ ਸਿੰਘ ਨਗਰ (ਮੋਹਾਲੀ)

ਵੱਲੋਂ

ਜਗਤ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਪੰਜਾਬ ਸਟੇਟ ਓਪਨ ਯੂਨੀਵਰਸਿਟੀ
ਦੇ ਸਰਟੀਫਿਕੇਟ/ਡਿਪਲੋਮਾ ਕੋਰਸ ਸ਼ੁਰੂ ਕੀਤੇ ਜਾ ਰਹੇ ਹਨ।

NEW SKILL BASED COURSES – A STEP TOWARDS BETTER EMPLOYABILITY

1. Certificate/Diploma in Software Development and Programming

Mr. Balwinder Singh Sandhu

9872647133

Mr. Balwinder Singh Saini

9872557688

Mrs. Navneet Kaur

9915814663

Mr. Amandeep Singh

8146028602

Admissions Open

Last Date: 15 March, 2022

Eligibility: 10+2 (Any stream)

Duration of certificate course: 6 months

Fee Structure:

Fee: Rs. 1750/

(Out of which Rs. 1000/ will be taken at the time of
registration. Rest will be taken in instalments.)

Teaching mode:

Blended (Online/Offline)

For Queries Contact:

Dr. Amandeep Kaur (Co-ordinator)

Mrs. Harjeet Gujral

Principal

Post Graduate Department of Punjabi

SMHS Govt. College Mohali

For more information student can visit : www.gcmohali.ac.in, WWW.PSOU.AC.IN

Harjeet Gujral

Principal

SMHS Govt. College

Sahibzada Ajit Singh Nagar

Student List JANUARY-2022

Sl. No.	Candidate Id	Name	Year	Session	Centre Name	Programme Name	Father Name	Mother Name	Gender
1	PSOU-STUD-22-20037	Paramvir Singh Somal	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Karamjit Singh	Sarabjit Kaur	Male
2	PSOU-STUD-22-48893	Shveta	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Hari Singh	Sushila	Female
3	PSOU-STUD-22-60109	Jaspreet Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Sukhpal Singh	Jasvir Kaur	Female
4	PSOU-STUD-22-39040	Harmanpreet kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Tajinder Singh	Gurwinder kaur	Female
5	PSOU-STUD-22-90917	Surinder Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jaspal Singh	Raj rani	Male
6	PSOU-STUD-22-43711	Nikhil Kumar	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Shakti Singh	Varsha devi	Male
7	PSOU-STUD-22-93754	Jagdeep Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	L. Shamsheer Singh	Paramjit Kaur	Female
8	PSOU-STUD-22-46694	Jaspreet Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Balwinder Singh	Jatinder kaur	Male
9	PSOU-STUD-22-40997	Gurpreet Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Narinderpal Singh	Satwinder Kaur	Male
10	PSOU-STUD-22-70118	Naviot Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Balour Singh	Balbir Kaur	Male
11	PSOU-STUD-22-48334	Ram Bhateri	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Parhlad	Kamla	Female

Hasjot Garg

Principal

Govt. College

Sahibzada Ajit Singh

2022

PSOU-STUD-22-60855	Simran Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Rajinder Kumar	Sarabjit Kaur	Female
13 PSOU-STUD-22-46496	Harjit Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Paramjit Singh	Jaswinder Kaur	Male
14 PSOU-STUD-22-54626	Vineet Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Amarjit Singh	Anita	Male
15 PSOU-STUD-22-82294	Maninder singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Harbans singh	Kulvir kaur	Male
16 PSOU-STUD-22-48589	Gurwinder singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Sarbjit singh	Karamjeet kaur	Male
17 PSOU-STUD-22-59591	Manisha	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Ram kishor	Anita	Female
18 PSOU-STUD-22-23246	Sakshi Rathour	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Ravinder Singh	Rinku	Female
19 PSOU-STUD-22-80770	Rajwinder Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Sukhdarshan Singh	Seema	Female
20 PSOU-STUD-22-37642	Rajni	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Dilbag singh	Suman	Female
21 PSOU-STUD-22-82730	Damini	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Naresh	Pushpa	Female
22 PSOU-STUD-22-66731	Sukhwinder kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Nirmal singh	Jasvir kaur	Female
23 PSOU-STUD-22-74511	Harsh bhojath	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jal dev swami	Kiran bala	Male

Harjeet Singh

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SMHS Govt. College
Sahibzada Ajit Singh Nagar

	PSOU-STUD-22-88462	Balwinder Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Ajit Singh	Anita Rani	Female
25	PSOU-STUD-22-13653	Jashanpreet kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Gurmeet Singh	Balwinder kaur	Female
26	PSOU-STUD-22-19741	Simran	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Manga Ram	Urmila	Female
27	PSOU-STUD-22-87565	Reena devi	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Madan singh	Sukhwinder kaur	Female
28	PSOU-STUD-22-26944	Arpanjot Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Hardeep Singh	Palwinder kaur	Female
29	PSOU-STUD-22-22421	Gurmukh Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jatinderpal Singh	Balwinder Kaur	Male
30	PSOU-STUD-22-94403	Satnam Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Karamjit Singh	Karamjit kaur	Male
31	PSOU-STUD-22-70776	Harpreet kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Gurcharan singh	Seema	Female
32	PSOU-STUD-22-52278	PARMEET KAUR	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Avtar singh	Kuldeep kaur	Female
33	PSOU-STUD-22-48827	Vandna Devi	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jaswinder Singh	Dimple Devi	Female
34	PSOU-STUD-21-12011	Palak saini	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Rakesh saini	rama rani	Female
35	PSOU-STUD-22-16979	Arshdeep	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Mr. Ram gopal	Mrs. Parbhjeet kaur	Female

Principal

SMHS Govt. College
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	PSOU-STUD-22-66527	Manjot singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Darshan Singh	Parminder kaur	
37	PSOU-STUD-22-63696	Simranpreet Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Baljinder Singh	Mandeep kaur	Male
38	PSOU-STUD-22-35757	Shivpreet singh rickwal	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Ramesh kumar	Santosh kumari	Male
39	PSOU-STUD-22-72881	Manvir singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Gurdeep singh	Jaswinder kaur	Male
40	PSOU-STUD-22-41855	Sukhchain Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Sukhvir singh	Mandeep Kaur	Male
41	PSOU-STUD-22-42430	Gurjit singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Narender Singh	Baljit kaur	Male
42	PSOU-STUD-22-28500	Pawanpreet Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Balvir Singh	Soni Rani	Female
43	PSOU-STUD-22-28929	Karanveer singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Dhana singh	Kamlesh kaur	male
44	PSOU-STUD-22-14837	Karanveer Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Malkeet singh	Baljeet kaur	Male
45	PSOU-STUD-22-76556	Gaganajit Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Inderjit Singh Panesar	Arvinder Kaur	
46	PSOU-STUD-22-32485	Prabhjot Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Hardeep singh	Jaspreet kaur	Male
47	PSOU-STUD-22-30908	Ashwani Kumar	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Anil kumar	Pushpa devi	

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	PSOU-STUD-22-87521	Ajay kumar	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Sukhwinder singh	Parmjit kaur	
49	PSOU-STUD-22-63482	Mukesh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Harvinder Singh	Dimple	
50	PSOU-STUD-22-67733	Beant Singh	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Harjinder Singh	Sarabjeet	Male
51	PSOU-STUD-22-82631	Gurpreet Kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jasbir Singh	Simranjeet kaur	Female
52	PSOU-STUD-22-52065	Manmeet kaur	2022	A	Govt. College, Mohali	Certificate Course in Software Development and Programming	Jasbir singh	Simranjeet kaur	Female

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R.No	Name	Father's name	Obj. Ori Anal+Design Using Dml	Basics of Data Structure	Prog. Using C	Lab-1	Lab-2	Lab-3	Grade points
100-22-72861	Mamvir Singh	Gurdeep Singh	C	B+	B	A+	A+	A+	126
100-22-28729	Kamveer Singh	Dhanu Singh	B	B+	B	A+	A	A+	128
100-22-67738	Beant Singh	Rajinder Singh	B	B	B	O	A+	O	130
100-22-82631	Gurpreet Kaur	Rubir Singh	B	B	B	A	A+	O	128
100-22-60109	Tasmeet Kaur	Sukhpal Singh	B+	A	C	A+	A+	O	136
100-22-46997	Gurpreet Singh	Narenderpal Singh	B	B	B	A+	A+	A+	126
100-22-48334	Ram Bhatti	Pavneet Kaur	B+	B+	B+	A+	A+	O	140
100-22-60885	Simran Kaur	Rajinder Kumar	A	A	C	O	A+	A+	140
100-22-46496	Harjit Singh	Parnjit Singh	B	B+	B	A+	A+	A+	130
100-22-23246	Sakshi Rathore	Rajinder Singh	A	A	B+	O	O	O	152
100-22-80710	Rajinder Kaur	Satishdaran Singh	B	A	B+	O	O	O	144

Highest scored

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Certificate/Diploma in Software Development and Programming

Objective of the Course:

To provide training in software development, programming languages, and basics of Data Structures. The course also helps the candidates to get acquainted with basics of software development and programming techniques.

Learning Outcomes:

After completion of this course the students would be able to understand the program code written in C, C++, Python, write code in these languages, design OO structure diagrams and will have basic knowledge of databases.

Duration of the Course:

- 1) Certificate course: 6 months
- 2) Diploma: 12 months

Eligibility: Any student enrolled in the degree program of the college and having knowledge about the basics of Computers.

Sr.No.	Topics	
Topics covered under Certificate Course are Sr No.1, 2 and 3		
1	GC-SDP-01T Programming using C GC-SDP-01P Programming using C Lab	Credits: 6(4 Th. 2 Lab)
2	GC-SDP-02T Object Oriented Analysis And Design Using Uml GC-SDP-02P Object Oriented Analysis And Design Using Uml Lab	Credits: 6(4 Th. 2 Lab)
3	GC-SDP-03T Basics of Data Structure GC-SDP-03P Basics of Data Structure Lab	Credits: 6(4Th. 2 Lab)
Topics covered under Diploma Course are Sr No. 1, 2, 3, 4, 5 and 6		
4	GC-SDP-04T DataBase Management System GC-SDP-04P DataBase Management System	Credits: 6 (4Th. 2 Lab)
5	GC-SDP-05T Programming Fundamentals Using Python GC-SDP-05P Programming Fundamentals Using Python	Credits: 6 (4 Th. 2 Lab)
6	GC-SDP-06P Minor Project	Credits: 6

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Detailed Contents

Programming Using C

Total Marks:100
External Marks:70
Internal Marks: 30
Credits: 4
Pass Percentage: 40%

Section A

Unit I: Simple Program logic, Pseudo-code, Problem Identification, Analysis, Flowcharts, and algorithms

Unit II: C Programming: character set, Identifiers and keywords, Data types, Declarations, Statement and symbolic constants, Input-output statements.

Unit III: Operators and Expressions: Arithmetic, relational, logical, unary operators, others operators,

Unit IV: Control statements: Branching, looping using for,while and do-while Statements, Nested control structures, switch, break, continue statements.

Section B

Unit V: Functions: Declaration, Definition, Call, passing arguments, call by value, call by reference, Recursion, Use of library functions; Storage classes: automatic, external and static variables.

Unit VI: Arrays: Defining and processing arrays, Passing array to a function, Using multidimensional arrays, Solving matrices problem using arrays.

Unit VII: Strings: Declaration, Operations on strings.

Unit VIII: Pointers: Pointer datatype, Structures: Using structures and union

Suggested Reading:

1. Byron S Gottfried, Programming with C| 4th Edition (Schaum's Outlines)
2. Yashavant Kanetkar, Let Us C, 17TH EDITION
3. E Balagurusamy, Programming in ANSI C

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Programming Using C Lab

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 2

Pass Percentage: 40%

The programs in lab will be based on the contents covered in the theory syllabus.

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Object Oriented Analysis and Design Using UML

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Section A

Unit I: Introduction to Object: Object Orientation, Development, Modeling, Object Modeling technique. Object modeling: Objects and classes, Links and Association, Generalization and inheritance

Unit II: Grouping constructs, Aggregation, Abstract Classes, Generalization as extension and restriction, Multiple inheritance

Unit III: Design Methodology, Analysis: Object modeling, Dynamic modeling, Functional modeling, Adding operations, Iterating Analysis.

Unit IV: Comparison of methodologies: Structured Analysis/ Structured Design, Jackson Structured Development.

Section B

Unit V: Implementation: Using Programming Language, Database System, outside Computer. Programming Style: Object Oriented Style, Reusability, Extensibility, Robustness, Programming in-the-large.

Unit VI: UML: Basics, Emergence of UML, Types of Diagrams. Use Case: Actors, Use Case Diagram, Relationships between Use Cases

Unit VII: Classes: Class Diagram, Classes, Objects, Attributes, Operations, Methods, Interfaces, Constraints, Generalization, Specialization, Association, Aggregation.

Unit VIII: Behavioral Diagrams: Activity Diagram, Collaboration Diagram, Sequence Diagram, State chart Diagram

Suggested Reading:

1. Ugrasen Suman, Object – oriented Analysis and Design Using UML, C engage publications
2. Michael Blaha, Object – Oriented Modeling and Design with UML IPearson
3. Sarnath Ramnath, Object – Oriented Analysis and Design, Springer

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Object Oriented Analysis and Design Using UML Lab

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 2

Pass Percentage: 40%

The programs in lab will be based on the contents covered in the theory syllabus.

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Basics of Data Structure

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Section A

Unit I: Basic concept of data, Problem analysis, algorithm complexity, Big O notation and time space trade off

Unit II: Introduction to array, stack, queue, add elements and remove elements in stack and queue at first, last and nth location, application of stacks and queues,

Unit III: Linear and binary search, bubble sort, insertion sort, selection sort.

Unit IV: Link list, insertion, deletion, traversal

Section B

Unit V: Stack using Link list, Queue using link list,

Unit VI: double link list insertion and deletion

Unit VII: Tree terminology, Binary tree, Binary Search tree, tree traversal,

Unit VIII: Insert and remove element in BST, heap, quick sort, merge sort.

Suggested Reading:

1. Seymour Lipschutz, Data Structures (Revised First Edition) | Schaum's Outline Series
2. Michael H. Goldwasser, Data Structures and Algorithms in Python

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Basics of Data Structure Lab

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 2

Pass Percentage: 40%

The programs in lab will be based on the contents covered in the theory syllabus.

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Database Management System

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Section A

Unit I: Introduction to DBMS-Basic DBMS terminology, Data independence. Architecture of a DBMS

Unit II: Relational Keys: Primary Key, Foreign Key, Candidate Key, Super Key etc., and Integrity Constraints

Unit III: Relational model, Relational schema Hierarchical model, and Network model.

Unit IV: Normal Forms: Functional Dependency, 1NF, 2NF, 3NF, BCNF, 4NF, 5NF

Section B

Unit V: Structured Query Language- Introduction to SQL/ MySQL, data types, DDL, DML, DCL, querying database tables, Data Definition Language (DDL)

Unit VI: Creating Tables, Inserting and updating values into a Table.

Unit VII: Data Manipulation Language: Various form of SELECT-simple, using special operators, aggregate functions, group by clause, sub query

Unit VIII: Introduction to views, Dropping a VIEW, GRANT command, REVOKE command, COMMIT and ROLLBACK

Suggested Reading:

1. James Groff, SQL The Complete Reference, 3rd Edition
2. Monika Pathak, Fundamentals of Database Management System (DBMS), Bookman Publishers
3. S. Sumathi, Fundamentals of Relational Database Management Systems, Springer

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Database Management System Lab

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 2

Pass Percentage: 40%

The programs in lab will be based on the contents covered in the theory syllabus.

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Programming Fundamentals Using Python

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Section A

Unit I: Introduction: Python installation and setup, Command line Basics; Python Objects.

Unit II: Data Structures Basics: Introduction to Python data types, Variable assignments, accepting input from the console, assignment statement,

Unit III: Expressions, operators and their precedence Numbers, String, String methods, Lists

Unit IV: Python Comparison Operators: Chaining comparison operators with logical operators, Pass Break and continue. write a lot of programs: interest calculation, primarily testing, and factorials.

Section B

Unit V: Program Flow control in Python: If Elif and Else statements in python, Loops: for loops, While loops

Unit VI: Methods and Functions in python: Introduction to functions, Def keyword, User defined functions, arguments and parameters, Parameter naming in python

Unit VII: Errors and Exception Handling: Introduction to errors, Built-in errors, raising errors in python

Unit VIII: File handling in Python: Files in python, importing own files, Read and writing text files, working with CSV, XML and JSON files.

Suggested Reading:

1. Udemy, <https://www.udemy.com/course/python-the-complete-python-developer-course/>
2. Timothy Budd, Exploring Python, TMH, 1st Ed, 2011

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Programming Fundamentals Using Python Lab

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 2

Pass Percentage: 40%

The programs in lab will be based on the contents covered in the theory syllabus.

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Minor Project

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 6

Pass Percentage: 40%

Minor project will be allocated to each student. The student can develop the project in C or python language, The project report will be submitted by the student for evaluation and viva-voce based on project will be conducted.

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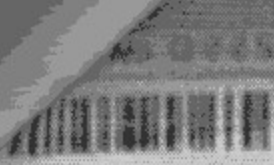
COURSE OUTCOME OF SOFTWARE DEVELOPMENT AND PROGRAMMING

Learning Outcomes

After course completion the students will have the following learning outcomes:

- Understanding a functional hierarchical code organization.
- Ability to define and manage data structures based on problem subject domain.
- Ability to work with textual information, characters and strings.
- Ability to work with arrays of complex objects.
- Understanding a concept of object thinking within the framework of functional model.
- Understanding a concept of functional hierarchical code organization.
- Understanding a defensive programming concept. Ability to handle possible errors during program execution.

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ਜਗਤ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਪੰਜਾਬ ਸਟੇਟ ਓਪਨ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
(2019 ਦੇ ਪੰਜਾਬ ਐਕਟ ਨੰ. 19 ਰਹਿਤ ਸਥਾਪਤ)

JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY, PATIALA

ਨਤੀਜਾ ਅਤੇ ਅੰਕ-ਬਿਉਰਾ-ਕਾਰਡ
RESULT-CUM-DETAILED MARKS CARD

(Statement of Marks cum-Certificate)

Regd No : PSOU-STUD-22-4309

Roll No : 2236254



Examination : Aug. 2022

Programme : Certificate Course in Software Development and Programming

Name : Guppreet Singh
Father's Name (Mr.) : Narinderpal Singh
Mother's Name (Mrs.) : Sarwender Kaur

LSC ID : PSOU-CTR-21-1034
Name of LSC : Govt. College, Mohali
Cycle : Jan 2022

S.No.	Course Code	Course Name	Credits	Grade
1	GC-SDP-02T	Object Oriented Analysis and Design Using Uml	4	B
2	GC-SDP-02T	Basics of Data Structure	4	B
3	GC-SDP-01T	Programming using C	4	B
4	GC-SDP-02P	Object Oriented Analysis and Design Using Uml Lab	2	A+
5	GC-SDP-01P	Programming using C Lab	2	A+
6	GC-SDP-03P	Basics of Data Structure Lab	2	A+

(Percentage = CGPA x 9.5)

RESULT : PASS

Total Credits	Total Grade Points
18	120

Cumulative Grade Points Average (CGPA) : 7.00 (10 Point scale)

Place : PATIALA
Date : 06-01-2023

Given under the seal of the University

Prepared by

Checked by

Asst Registrar

Controller of Examinations

GRADING CRITERION:

Marks	≥90 & ≤ 100	≥80 & < 90	≥70 & < 80	≥60 & < 70	≥50 & < 60	≥45 & < 50	≥40 & < 45	≥40
Grade	D	A+	A	B+	B	C	F	F
Grade Point	10	9	8	7	6	5	4	0

Grade Point

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