

At Lankaran State University, LSU's hybrid learning retrains students' brains in such a way that it is possible to deliver the curriculum through both, traditional face to face in-class instruction and also through the use of the internet. This not only gives the learners more choices, but also access to a variety of educational resources with utmost convenience. It is also adaptable for various education modes, and still makes it possible for learners to advance their studies even if there is a barrier such as location or the amount of time available.

For instance, here is the brief explanation of the stages of how hybrid learning works at Lankaran State University:

1. Incorporating Blendings Learning

The learning environment at LSU favours hybrid education because students are more engaged and several procedures can take place at once, allowing for greater flexibility. This normally contains:

- **Combined Sessions:** Depending on the specific curriculum, on-campus students are expected to participate in guided lectures, group and laboratory work, as well as practical training for on-campus courses.
- **Computer Assisted Learning:** People who are enrolled in a course might also watch assigned videos, read required literature, or participate in chats online. Asynchronous assignments, activities, and even online lectures may be included.
- **On-Campus and Online Activities:** Students do not have to alter their schedules significantly in order to complete their online courses as courses can be completed whenever they are available and on days when students are expected to be on physical reasonable grounds.

2. Technological support

The implementation of hybrid education in LSU is reliant on the adequacy of the available technology in the university which encompasses:

- **Learning Management Systems (LMS):** They are utilized at LSU to call other systems such as Moodle or upload course content and resources and keep in touch with students and track their performance. They may also include submission, interaction, resource access, or exam tools.
- **Video Conferencing Tools:** To facilitate immediate interaction with students, these video conferencing tools may include Zoom or MS Teams. These are used for lessons, lectures or any meeting with the trainers in real time.
- **Interactive Learning Tools:** Students and trainees put in use interactivity tools like posting videos, podcasts during the training sessions or forums in relations to topics which helps in keeping the students busy with the content whether present physically or are watching from elsewhere.



3. Flexibility for Students

- Remote Learning Opportunities: Hybrid models facilitate the engagement of the students with the interactions who may due to certain conditions do not attend the campus and the courses are even completed as if one is in a classroom without compromising the standards.
- Self-Paced Learning: Certain elements of hybrid learning such as viewing recorded lectures or reading materials can be completed by students at their own pace allowing for a more individualized approach to learning.
- Access to Resources: LSU systematically offers a number of online learning materials such as eBooks, academic journals, and instructional videos so that the learners are never short of resources.

İxtisas qrupu: Kimya və biologiya müəllimliyi : BAKALAVR : ƏYANI : 4 :			Müəlləndirmə			
No	Tədris ili Semestr	Tarix	SÜ	İB	Yekun	
38	2019-2020	2				
37	2019-2020	2				
36	2019-2020	2				
35	2019-2020	2				
34	2019-2020	2				
33	2019-2020	2				
32	2019/2020	1 30.01.20	49	46	95	A (əla)
31	2019/2020	1 25.01.20	46	39	85	B (çox yaxşı)
30	2019/2020	1 21.01.20	43	39	82	B (çox yaxşı)
29	2019/2020	1 15.01.20	46	45	91	A (əla)
28	2019/2020	1 10.01.20	45	34	79	C (yaxşı)
27	2018/2019	2 03.07.20	49	38	87	B (çox yaxşı)
26	2018/2019	2 27.06.20	45	47	92	A (əla)
25	2018/2019	2 20.06.20	46	44	90	B (çox yaxşı)
24	2018/2019	2 13.06.20	46	43	89	B (çox yaxşı)
23	2018/2019	2 04.06.20	47	50	97	A (əla)
22	2018/2019	1 24.01.20	47	40	87	B (çox yaxşı)
21	2018/2019	1 19.01.20	47	39	86	B (çox yaxşı)
20	2018/2019	1 14.01.20	49	45	94	A (əla)
19	2018/2019	1 07.01.20	46	46	92	A (əla)
18	2017/2018	2 29.06.20	44	39	83	B (çox yaxşı)
17	2017/2018	2 23.06.20	43	39	82	B (çox yaxşı)
16	2017/2018	2 20.06.2018	10	9	8	0 19 46 34 80 C (yaxşı)
15	2017/2018	2 14.06.2018	10	10	0	8 17 45 41 86 B (çox yaxşı)

Genetika və seleksiya fənni üzrə əlavə materiallar:	
1.	Genetik analizin prinsipləri və üsulları. Q. Mendelin qanunları. Video materialda monohibrid, dihibrid və polihibrid çarpazlaşma haqqında məlumat verilir və Mendel qanunları təhlil edilir.
2.	Mövzu: Genlərin əlaqəsi və krossinqover Fənn: Genetika və seleksiya Kimya və biologiya müəllimliyi : BAKALAVR : ƏYANI : 4 : İrsiyyətin əlaqəsi və krossinqover haqqında məlumat verilir
3.	Mutasiya dəyişkənliyi
4.	Modifikasiya və mutasiya dəyişkənliyi
5.	Mövzu: Ferdi inkişafın genetikası
6.	Mövzu: Populyasiya və təkamül genetikası
7.	Mövzu: İnsan genetikası
8.	Mövzu:Seleksiyanın genetik əsasları
9.	Hüseynov M.B., Quliyev M.I. Embriologiya. Dərs vəsaiti. Bakı-2010. 158 səh. (Birinci nəşr)
10.	Hüseynov M.B. Sitologiya. Dərslik. Bakı-2017.
11.	Genetikadan izahlı məsələ həlli

4. Faculty Support and Training

LSU provides its staff with training and support necessary to design successful courses in hybrid learning. In this regard, it is recommended to:

- Develop engaging and interactive online resources that supplement onsite learning.
- Adopt a host of multi-media in the teaching of lessons enhancing varieties in the learning experience of students.
- Communicate frequently and consistently with students through the internet and ensure that students do not get isolated in their learning and receive required guidance.

The flexibility of the faculty is also stressed and the professors are free to choose the format of their lesson depending on the subject, class strength and the needs of the students.



5. Assessment and Evaluation

Evaluation in educational institutions that apply hybrid learning is done using conventional assessment methods for example classroom examinations and web-based assessments. This makes it possible to offer an all rounded appraisal of the students:

Online Quizzes/Tests: Some quizzes/exams may be conducted online via the LMS of the university, where students may take them remotely under supervised conditions.

- On-campus Exams: Some courses with practical components or those requiring hands-on testing in person—from labs to clinical practice—continue to compel students to come onto campus for in-person assessment.
- Project-Based and Group Work: Many courses in the hybrid model include collaborative projects, whereby students can work in groups both online and in person to develop their collaborative and communication skills.



6. Student-Centered Learning Focused End

LSU's hybrid model is centered on student-centered learning, provides flexibility, and allows students to take ownership of their learning. It includes the following features:

- **Diverse Learning Styles:** Some students would rather have face-to-face interactions for hands-on learning, while others perform better in an online or self-paced setting. Hybrid learning finds a balance to accommodate the diverseness.
- **Increased Engagement:** Hybrid courses involve the use of multimedia, interactive assignments, and virtual discussions, which increase the activity level of students engaging with course materials and other students.

7. Support Services

LSU provides a host of other student support services to ensure hybrid learning works.

- **Academic Support:** This block contains tutoring, writing centers, and academic advising, all available online and on-campus to ensure students can get help when they need it.

- Technical Support: Since hybrid learning relies on technology, LSU provides technical support to help students troubleshoot any problems related to online platforms, software, or connectivity.
- Career Services and Counseling: Provides career counseling, internship opportunities, and mental health services to both on-campus and online students.

8. Benefits of Hybrid Courses at LSU

- Increased access: students from rural areas or those with mobility impairments can receive quality education without necessarily having to travel to the university.
- Cost-effective: With hybrid learning, students don't have to come to campus. This means cost savings on travel, accommodation, and other related expenses.
- Prep for the Future: The hybrid model of learning is a simulation of trends in modern workplaces where employees are expected to work in flexible environments that oftentimes blend in-person meetings with remote work.

The image shows a screenshot of a PowerPoint presentation. On the left side, there is a code snippet for an if statement in C++:

```
if (<şart>
{
...;
}
```

On the right side, there is a flowchart illustrating the logic of an if-else statement. It starts with an entry arrow pointing to a diamond-shaped decision box labeled "ŞART". From the bottom of the diamond, an arrow labeled "HƏ (DOĞRU)" points down to a rectangular box labeled "OPERATOR". From the right side of the diamond, an arrow labeled "YOX (YALAN)" points right and then down, bypassing the operator box. Both paths eventually merge into a single exit arrow at the bottom.

The PowerPoint window title is "PowerPoint Slide Show - [C++shert] - Microsoft PowerPoint (Product Activation Failed)". The slide number "Slide 5 of 31" is visible in the bottom left corner. On the right side of the screenshot, there are three small video thumbnails showing participants in a virtual meeting.

9. Problems and Solutions

While hybrid learning offers many benefits, it also presents challenges, such as:

- **Technological Barriers:** Some students may find themselves without access to the necessary technology or internet bandwidth to take part in online learning. LSU mitigates this by providing loaner devices and ensuring that support services are in place to get students past these barriers.
- **Engagement Issues:** Online learning can be isolating at times. To that end, LSU encourages interactive teaching methodologies, frequent feedback, and virtual social activities that create a sense of community and connection among the students.

Conclusion: Lankaran State University offers students a flexible, adaptable, and accessible hybrid learning experience, enabling them to complete their courses in the way that best suits them and harmonizes with their personal and professional lives. This commitment to integration offers students the best approach between online and in-person education, ensuring that they receive high-quality, student-centered education but are also prepared for an increasingly digital world. In this regard, through effective use of technology, academic support, and innovative teaching methods, LSU provides a modern and responsive learning environment for its diversified student body.