UNESCO-UNITWIN
OCW/OER INITIATIVE
HANDONG GLOBAL UNIVERSITY

[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The machine aggregates theory consists mainly of some parts. Each corner is driven by movement and resistance forces.
The following major issues are solved in the theory of machine aggregates:
a) analyzing the nature of the forces that affect the vehicle;
b) learning the effects of mechanisms, external, weight, reduction and frictional forces on kinematic pairs and identifying methods for reducing dynamic loading (kinematic calculations);
c) balancing the inverter power of the unit;
d) friction and abrasion reduction in kinematic pairs of mechanisms;
d) study the mechanical action of forces and mechanisms to ensure that the required stability of the mechanism is maintained;
e) adjusting the motion of the car;

2. Course Goals and Objectives (Approximately 100 words)

The purpose of the subject is to develop technology of machine structure, signaling and working mechanisms, interaction of working bodies, analysis of the laws of movement, substantiation of parameters, development of designs One of the most important conditions for creation of modernized new conventions of machines, is to teach students how to increase the efficiency of metal use in designing new machines, mechanisms and equipment by reducing the cost, simplifying, using composite materials and plastics.
Task of the science: to know the theoretical foundations of machine units in technological machines; knowing the basics of transmission, transmission and working mechanisms, technological resistance and movement control; a comprehensive analysis of the laws of action and assessment of the impact on technological processes; compilation and analysis of mathematical models of complex machine machine aggregates

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

1.⁄R.S. Khurmi, J.K. Gupta. “THEORY OF MACHINES” Reprint 2011. ISBN: 81-219-2524-X. Ram Nagar, New Dehli-110055
2.⁄prof. P.L. Ballaney “Theory of machines and mechanisms” Twenti Third edition: 2003. ISBN ¯ .: 81-7409-122-X. 2-B, NATH MARKET, NAI SARAK, DEHLI-110006
3.⁄ϕ. г ^tϖ⊙j ə, ∫ .t .∫ ⊙ɔdzʷəɔ[j ə, υ.ϕвнlz⊹⊙tϖ[dʒsɔ, г .ʁ. ∫ ɔ[tϖ⊙⊓dʒjнtsɔ. “∫ j⊓⊙dϖ[LɔʒəO dʒ⊙ʰ ɔ[dϖdzϖ⊙tϖdϖL⊙tϖ[ʷfnɔ[”. г ⊙tɔfnɔdz[ς. - υ.: “ɔ . ɔ lzɔdtsɔʒ”, 2004 ʔ.-596 в.
4.⁄г ɔ lztϖ⊙j ə ϕ., ς lzɔ[вϖ⊙j ə ɻ., ς ɔ[ʅ⊹ϖ[dϖ⊹⊙tsɔ ɻ. «г ɔ[dϖdʒ⊙⊹⊙fnɔ[fnɔsj ɔʒʃ[tϖ[ə tsнtsɔ lsj⊓ɔdϖɔtsɔ[ʅj fnɔ⊹ɔ[⊓ dʒ⊙ʰ ɔ[dϖ». ∫ tsɔdϖɔtϖ⊙ʷ ɔ[ʷ. - υ.: ϕнtsɔdϖ⊙ls, 1993. – 278 fnɔ

4. Reference

1.⁄∫ ɔ[tϖ.ɔ[ʸ j ə z ⊹∫ . ɔtsɔdϖdϖzfnɔsϖ⊙tsϖtϖdz[ɔ[ə⊙ɔ[dϖfnɔsϖdϖzʒ⊙dϖʷ ⊙⊙lsɔdϖ⊙tϖ[dϖ[ls⊙ dʒ[dϖdϖ⊙ʰ -ʁ tϖls ls⊙tϖ⊙γɔ[ʸ lsɔ[ə⊙⊓⊙dz[ʷʷ ⊙tϖsϖtsɔdϖdz[ɔ[dϖ[dϖ⊹ɔ⊙tϖsϖɔ[. υtsʰ ς j dϖls, «ɔeлвj ς⊹ɔ[fnɔsϖtsɔdϖ», 2017 ʔ.ɔ[dz 48 вj ls
2.⁄2017-2021 ʔ.ɔ[dϖdϖ⊙tϖ⊙ɔeлвj ς⊹ɔ[fnɔsϖtsɔdϖ[j fnɔ[ʃlzвdϖ[ς⊹⊙fnɔ[dϖ[tϖ[ə tsϖ dϖ⊙dϖsɔ[tϖ[ʰ ¬dϖ[dϖ⊹вj ʰ ls⊙ lzfnɔsϖtsϖ⊹ʔ∧dϖ⊙dϖ[ʰ ɔ[в∧ʔ⊹ɔ[υ⊙′ ⊙tϖ⊹⊙lsϖ⊙tϖ⊹fnɔsϖtϖ⊙lsj ɔ[ʷfnɔ[. ɔeлвj ς⊹ɔ[fnɔsϖtsϖ[j fnɔ[ʃlzвdϖ[ς⊹⊙fnɔ[ɻ tϖj ɻ ɔ[нj dϖsϖ[dϖ[dϖ⊹2017 ʔ.ɔ[dz7 ʷʷ j ə tϖ⊙dϖнϖ⊙ɔ[ɻ ∧ -4947 fnɔsϖdϖz[∧ ⊙tϖ[ʒsϖdϖ[.
3.⁄ϕ. г ɔ lztϖ⊙j ə. ∫ ⊙ʰ ɔ[dϖ⊙⊙tϖj ϖ⊙lsϖ⊙tϖ⊹dϖ⊙tϖ[ʷfnɔ[(dʒ⊙ tϖz ⊙ς⊹ztϖfnɔ[) ∧γlzə γ∧dϖz⊙dϖʒ⊙ – υ.: 2014 ʔ. - 106 вj ls
4.⁄г ɔ lztϖ⊙j ə ϕ. “∫ tsнj dz[tϖsϖ⊙dϖ[j нɔ[dϖ⊙dʒ[ς⊹ɔ[dʒ⊙ʰ ɔ[dϖdϖ[⊓ ⊙tϖj ϖ⊙lsϖ ⊓ϖsϖ[ʃ⊹tsϖ[j tϖj tϖ⊙вϖlsϖ[ə⊙ʸ ʰ ɔ[⊓ dʒ⊙ʰ ɔ[dϖ. ∫ tsϖdϖtϖ⊙ʷ ɔ[ʷ. – υ.: ∧ ⊙dz 1991. - 128 fnɔ
5.⁄∧ tϖsϖdϖsϖ ς.ɻ . ə⊙вtsʰ γ⊙dϖ⊙tϖ “∫ j⊓⊙dϖ[LɔʒəO dʒ⊙ʰ ɔ[dϖdϖ⊙tϖ⊹dϖ⊙tϖ[ʷfnɔ[”. г ⊙tɔfnɔdz[ς. - υ.: “ɔeγɔ[lsϖzəɔ nɔ[” 1990 -496 вj ls

5. Course Requirements and Grades

Course prerequisites:
Students should have the knowledge of "Higher mathematics", "Resistance of materials", " Theoretical mechanics", and "Drawing geometry".
Grading System:
Homework 15%
Design Project 15%
Mid-term Exams 35%
Final Comprehensive Examination 35%
Total 100%
5=86-100%
4=71-85%

6. Course Calendar

Week	Main Content
1	MOshinOOgrjgOtlOri nOzOriyasi fOnining Ostssiy vOzifOlOri. ϕstssiy tushunchOlO
2	MOshinOOgrjgOtidOtO`sir qiluvchi kuch kuchlOr klOssifikOsiyasi
3	ϕsin□rtsm dvigOtjlOrni mj□Onik □OrOktiristikOlOri
4	Ichki yonish dvigOtjli mj□Onik □OrOktjristikOsi
5	MOshinOOgrjgOtidOgi qOrshilik kuchlOri
6	Tj□ntshtsgik qOrshiliklOrini qOytOishlOsh uslubi
7	IshqOlOnish kuchlOrini mtsdjllOshtirish
8	TOqsimlOngOn rtstOsitsn mj□OnizmlOri bo`lgOn mOshinOOgrjgOti
9	Tj□nOltsgik mOshinOlOrning uchtOgOtOrmtsqlOngOn mOshinOOgrjgOti
10	Erkinlik dOrOjOsi 1 tjng sistjmOlOrni lsjbrOnishlOri
11	MOrkOzdOn qtschmOtjbrOngichli mOshinOOgrjgOti
12	MOshinOni hOrOkOt tjnglOmOlOri
13	hinOOgrjgOtidOtjzlikObtsg`liq kuchlOr tO`siridOkjltirilgOn bo`g`in hOrOkOtini t
14	Ogrjgotidovoqtgo, □tslOtgObtsg`liq kuchlOr tO`siridOkjltirilgOn bo`g`in hOrOkO