

**O'ZBEKISTON RESPUBLIKASI OLIY VA O'RTA MAXSUS  
TA'LIM VAZIRLIGI**

**JIZZAX POLITEXNIKA INSTITUTI**



**«TASDIQLANDI»**

qay ishlari bo'yicha prorektor

G'.Egamnazarov

12 2021 y.

**“TRANSPORT LOGISTIKASI” KAFEDRASI**

**“TRANSPORTNI REJALASHTIRISH VA  
OQIMNI BOSHQARISH ASOSLARI” FANIDAN**

**magistraturaning**



**5A310609–Intellectual transport tizimlari**

**mutaxassisligi uchun SILLABUS**

*(Sillabus kafedraning 2021 yil “26” 08 dagi  
1-sonli majlisida muhokama qilingan va tasdiqlangan)*

**Jizzax-2021 y.**

Fan sillabusi Jizzax politexnika instituti ilmiy-uslubiy kengashining 2021 yil  
"22" 12 dagi 5 - sonli bayonnomasi bilan tasdiqlangan.

**Tuzuvchilar:**

Rahmatullaev M. - "Transport logistikasi" kafedrası dotsenti t.f.n  
Nishonov A. - "Transport logistikasi" kafedrası assistent

**Taqrizchilar:**

Abdunazarov J. - "Transport logistikasi" kafedrası dotsenti t.f.n

Djiyanbayev S. - "Transport logistikasi" kafedrası mudiri t.f.f.d

"Transport logistikasi"  
kafedrası mudiri  
2021-yil "26" 08  t.f.f.d. S.Djiyanbaev  
(imzo)

O'quv uslubiy  
boshqarma boshlig'i:  
2021-yil "22" 10  J.Nasriddinov  
(imzo)

<b>Fan nomi:</b>	<b>Transport umumiy kursi</b>
<b>Fan turi:</b>	majburiy
<b>Fan kodi:</b>	TROBA1201
<b>Bosqich:</b>	1
<b>Semestr:</b>	1
<b>Ta'lim shakli:</b>	Kunduzgi
<b>Mashg'ulotlar shakli va semestrda ajratilgan soatlar:</b>	180
Ma'ruza	30
Amaliy mashg'ulotlar	30
Laboratoriya mashg'ulotlari	-
Seminar	-
Mustaqil ta'lim	120
<b>Kreditlar miqdori:</b>	6 ECTS
<b>Baholash shakli:</b>	Imtixon
<b>Fan tili:</b>	O'zbek

<b>Dastur mualliflari:</b>	M.Rahmatullayev, A Nishonov
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<b>Professor-o'qituvchilar haqida ma'lumot va talabalar bilan ishlash vaqti</b>	Ma'ruzachi va amalyot: M.Rahmatullayev 2- bino 2-qavat 208A xona.Tel.+998 331910020 Qabul vaqti o'quv haftasining seshanba, payshanba va juma kunlari 15 <sup>00</sup> -17 <sup>00</sup>

### 6 ECTS. 60 auditoriya soat

Ma'ruza	Amaliy mashg'ulot	Laboratoriya	Jamoaviy ishlash (JI)	Amaliy va laboratoriya (MI)	Mustaqil ta'lim (MT)	Jami
30	30	-	-	-	120	180

<b>Kurs haqida qisqacha ma'lumot (QM)</b>	
<b>QM1</b>	<p>Fanni o'qitishdan maqsad – bo'lajak mutaxassislarining transport tizimlari, transport oqimini rejalashtirish va boshqarish, ma'lumotlarni tahlil qila olish ko'nikmasini yaxshilash hamda zamonaviy axborot texnologiyalari dasturlarini qo'llagan holda transport oqimini rejalashtirish hamda transport oqimini ishlab chiqilgan rejalar asosida samarali boshqarish usullarini o'rganish bo'yicha bilimlarini shakllantirish.</p> <p>Fanning vazifasi – mutaxassislarni muayyan transport oqimini samarali boshqarish va rejalashtirish uchun mavjud matematik va dasturiy ta'minot bilan masalalarni mustaqil echishda etarli darajada bilim, ko'nikma va malakalarga ega bo'lishdir. Mutaxassislarni muhandislik va mutaxassislik fanlariga oid transport tizimlari, transport oqimini rejalashtirish va boshqarish kabi ishlarni avtomatlashtirish uchun zarur bo'lgan bilim, ko'nikma va</p>

	malakalarga etarli darajada o'rgatish va tanishtirishdan iborat.
<b>Ta'lim natijalari (TN)</b>	
<b>TN1</b>	transport oqimini rejalashtirish va boshqarish, ma'lumotlarni tahlil qila olish ko'nikmasini yaxshilash
<b>TN2</b>	Transportda yuk va yo'lovchilarni tashishning o'rni va sotsial-iqtisodiy ahamiyati
<b>TN3</b>	Transport sohasida Davlatning siyosati hamda uning mamlakat va jahonda rivojlanish tendensiyasi va istiqbollari
<b>TN4</b>	Transport turlari bo'yicha asosiy tushunchalar
<b>TN5</b>	Har xil transport turlari bo'yicha asosiy ish ko'rsatkichlari va ularni yaxshilash imkoniyatlari
<b>TN6</b>	Transport vositalari ish unumdorligini oshirish
<b>TN7</b>	Transport turlari bo'yicha xizmat ko'rsatish sifati va uning raqobatbardoshligini iqtisodiy baholash
<b>TN8</b>	Sohadagi mavjud asosiy huquqiy va me'yoriy hujjatlarni bilishi va ulardan foydalana olishi

<b>Mashg'ulotlar shakli: ma'ruza (M)</b>		<b>Dars soatlari hajmi</b>
	<b>1-semestr</b>	
M1	Transportni rejalashtirish va oqimni boshqarish asoslari fanining predmeti va vazifalari	2
M2	Transport tizimlari asoslari	4
M3	Transportni rejalashtirish jarayonlari	4
M4	Transport qonunlari va multi-modal transport o'qitilishi	2
M5	Transportni rejalashtirishda modellashtirish va topografiya	4
M6	Shahar transportini rejalashtirish	4
M7	Barcha tizimlarni birlashtirib rejalashtirish	4
M8	Rejalashtirishning qulayligi va harakatliligi	4
M9	Tashishning ta'siri	2
	<b>Jami:</b>	<b>30</b>
<b>Foydalaniladigan adabiyotlar:</b>		
<p>M1- Bruton M.J.; Introduction to transportation planning Hutchinson London 1971  Litman T.; Introduction to Multi-Modal Transportation Planning - Principles and Practices, Victoria Transport Policy Institute 2009,  <a href="http://www.vtpi.org/multimodal_planning.pdf">www.vtpi.org/multimodal_planning.pdf</a></p> <p>M2- Planning Policy Guidance 13:Transport. TSO Norwich 2006,  <a href="http://www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf">www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf</a></p> <p>M4- Integrated Transport Planning Framework. A Guide for Transport Planning, Queensland Gov. 2003,</p> <p>M5- FHWA and FTA (2007), The Transportation Planning Process Key Issues: A Briefing Book for Transportation Decisionmakers, Officials, and Staff, FHWA-</p>		

HEP-07-039, FHWA and FTA  
M6- Todd Litman (2001), "Generated Traffic; Implications for Transport Planning," ITE Journal, Vol. 71, No. 4, (www.ite.org), April, pp. 38-47, [www.vtpi.org/gentraf.pdf](http://www.vtpi.org/gentraf.pdf)  
M7- Todd Litman (2006), Evaluating Accessibility for Transportation Planning, Victoria Transport Policy Institute ([www.vtpi.org](http://www.vtpi.org)), [www.vtpi.org/access.pdf](http://www.vtpi.org/access.pdf)  
M8-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 33-bet  
M9-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 35-bet  
INTERNET MA'LUMOTLARI  
1. Seoul TOPIS(Transport Operation & Information Service), Korea <http://topis.seoul.go.kr>  
2. C-ITS(Co-Operative ITS), Korea <http://www.c-its.kr/>  
3. National Transport Information Center, Korea <http://www.its.go.kr/>  
4. ITS Russia forum 2020 <https://2020.itsrussiaforum.ru/>  
ITS America <http://itsamerica.org/>

<b>Mashg'ulotlar shakli: amaliy (A)</b>		<b>Dars soatlari hajmi</b>
<b>1-semestr</b>		
A1	Tizimlar nazariyasining asoslari	2
A2	Transport tizimlari	2
A3	Transport tizimlarini tadqiq qilish	2
A4	Transport tizimlarinig rivojlanishi	2
A5	Transport jarayonlari va uning o'lchovlari	2
A6	Transport tizimlari faoliyatining sifatini baholash usullari	2
A7	Transport tizimini boshqarishdagi ob'ektiv va sub'ektiv muammolari	2
A8	Transport tizimini boshqarish strategiyasi	2
A9	Trafik oqimi va tezligi o'rtasidagi munosabatni modellashtirish	2
A10	Trafik oqimi va zichlik o'rtasidagi munosabatni modellashtirish	2
A11	Zichlik va tezlik o'rtasidagi bog'liqlikni modellashtirish	2
A12	Trip Generation'modeli misolini echish	2
A13	Trip Distribution'modeli misolini echish	2
A14	'Modal Split'modeli misolini echish	2
A15	'Trip Assignment'modeli misolini echish	2
<b>Jami</b>		<b>30</b>
<b>Foydalaniladigan adabiyotlar:</b>		

A1- Bruton M.J.; Introduction to transportation planning Hutchinson London 1971  
 Litman T.; Introduction to Multi-Modal Transportation Planning - Principles and Practices, Victoria Transport Policy Institute 2009,  
[www.vtpi.org/multimodal\\_planning.pdf](http://www.vtpi.org/multimodal_planning.pdf)

A3- Planning Policy Guidance 13:Transport. TSO Norwich 2006,  
[www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf](http://www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf)

A4- Integrated Transport Planning Framework. A Guide for Transport Planning, Queensland Gov. 2003,

A5- FHWA and FTA (2007), The Transportation Planning Process Key Issues: A Briefing Book for Transportation Decisionmakers, Officials, and Staff, FHWA-HEP-07-039, FHWA and FTA

A6- Todd Litman (2001), "Generated Traffic; Implications for Transport Planning," ITE Journal, Vol. 71, No. 4, (www.ite.org), April, pp. 38-47, [www.vtpi.org/gentraf.pdf](http://www.vtpi.org/gentraf.pdf)

A7- Todd Litman (2006), Evaluating Accessibility for Transportation Planning, Victoria Transport Policy Institute ([www.vtpi.org](http://www.vtpi.org)), [www.vtpi.org/access.pdf](http://www.vtpi.org/access.pdf)

A8-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 33-bet

A9-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 35-bet

INTERNET MA'LUMOTLARI

1. Seoul TOPIS(Transport Operation & Information Service), Korea <http://topis.seoul.go.kr>
2. C-ITS(Co-Operative ITS), Korea <http://www.c-its.kr/>
3. National Transport Information Center, Korea <http://www.its.go.kr/>
4. ITS Russia forum 2020 <https://2020.itsrussiaforum.ru/>

ITS America <http://itsamerica.org/>

<b>Mashg'ulotlar shakli: mustaqil ta'lim (MT)</b>		<b>soat</b>
<b>2-semestr</b>		
<b>MT1</b>	Tizimlar nazariyasi asoslari.	6
<b>MT2</b>	Murakkab tizimlar	6
<b>MT3</b>	Katta tizimlar	6
<b>MT4</b>	Avtotransport tizimlari	6
<b>MT5</b>	Transport jarayonlari	6
<b>MT6</b>	Transport tizimlari	6
<b>MT7</b>	Transport tizimlarini loyihalashda chiziqli dasturlash	6
<b>MT8</b>	Transport tizimlarini tadqiq qilishda imitatsion modellashtirish	6
<b>MT9</b>	Transport tizimlarini tadqiq qilishda yalpi xizmat ko'rsatish nazarichsini qo'llash.	6
<b>MT10</b>	Transport tizimlarini tadqiq qilishda Mapkov zanjirli jarayonlari usulidan foydalanish	6
<b>MT11</b>	Transport tizimlarini tadqiq qilishda graflar nazariyasini qo'llash	6
<b>MT12</b>	Transport tizimlarining rivojlanishini tadqiq qilishda bashorat qilish	6



	usullarini qo'llash	
<b>MT13</b>	Transport tizimlari	6
<b>MT14</b>	Transport tizimlarini tadqiq qilish	6
<b>MT15</b>	Transport tizimlarining rivojlanishi	6
<b>MT16</b>	Transport jarayonlari va uning o'lchovlari	6
<b>MT17</b>	Aholining transport harakatlanuvchanligini tahlil qilish	6
<b>MT18</b>	Transport tizimlari faoliyatining sifatini baholash usullari	6
<b>MT19</b>	Transport tizimini boshqarishdagi ob'ektiv va sub'ektiv muammolar	6
<b>MT20</b>	Transport tizimini boshqarish strategiyasi	6
	<b>Jami:</b>	<b>120</b>

### **Foydalaniladigan adabiyotlar:**

- MT2- Bruton M.J.; Introduction to transportation planning Hutchinson London 1971  
 Litman T.; Introduction to Multi-Modal Transportation Planning - Principles and Practices, Victoria Transport Policy Institute 2009,  
[www.vtpi.org/multimodal\\_planning.pdf](http://www.vtpi.org/multimodal_planning.pdf)
- MT3- Planning Policy Guidance 13:Transport. TSO Norwich 2006,  
[www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf](http://www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf)
- MT4- Integrated Transport Planning Framework. A Guide for Transport Planning, Queensland Gov. 2003,
- MT5- FHWA and FTA (2007), The Transportation Planning Process Key Issues: A Briefing Book for Transportation Decisionmakers, Officials, and Staff, FHWA-HEP-07-039, FHWA and FTA
- MT6- Todd Litman (2001), "Generated Traffic; Implications for Transport Planning," ITE Journal, Vol. 71, No. 4, (www.ite.org), April, pp. 38-47, [www.vtpi.org/gentraf.pdf](http://www.vtpi.org/gentraf.pdf)
- MT7- Todd Litman (2006), Evaluating Accessibility for Transportation Planning, Victoria Transport Policy Institute ([www.vtpi.org](http://www.vtpi.org)), [www.vtpi.org/access.pdf](http://www.vtpi.org/access.pdf)
- MT8-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 33-bet
- MT9-B.A.Xo'jaev "Yagona transport tizimi va har xil transportlar o'zaro yondoshuvi". T.: "Mehnat", 2004 y. 35-bet
- INTERNET MA'LUMOTLARI**
1. Seoul TOPIS(Transport Operation & Information Service), Korea <http://topis.seoul.go.kr>
  2. C-ITS(Co-Operative ITS), Korea <http://www.c-its.kr/>
  3. National Transport Information Center, Korea <http://www.its.go.kr/>
  4. ITS Russia forum 2020 <https://2020.itsrussiaforum.ru/>
- ITS America <http://itsamerica.org/>

## Ta'lim strategiyasi

Organik kimyo 1 kursini o'qitish ta'limining kredit tizimi asosida ma'ruza, amaliy va laboratoriya mashg'ulotlari, video ma'ruzalar, taqdimotlar hamda mavzu bo'yicha vazifalar va mustaqil topshiriqlarni o'z ichiga oladi. Ma'ruza, amaliy ishlarga oid o'quv materiallarda ko'rsatilgan mavzular bo'yicha nazariy va amaliy ma'lumotlar beriladi, amaliy ishlarni, mustaqil ishlarni bajarish va natijalarni hisoblash tartibi tushuntiriladi. Kurs bo'yicha qo'yilgan o'quv materiallari talabalar tomonidan mustaqil o'rganiladi, testlar, amaliy ishlar talabalar tomonidan individual tarzda bajariladi.

Talabalar quyidagi materiallardan foydalanish imkoniga egadirlar:

- Video ma'ruzalar;
- Elektron shakldagi ma'ruza matnlari;
- Har bir mavzuga doir prezentatsiya slaydlari;
- Amaliy va laboratoriya mashg'ulotlarga doir uslubiy ko'rsatmalar;
- Har bir dars mavzusi yuzasidan topshiriqlar va mashqlarivamasalalar;
- Elektron shakldagi darsliklar va qo'llanmalar.

Nazariy mashg'ulotlar davomida, talabaga ma'ruza orqali mavzu yuzasidan kerakli bo'lgan konsepsiyalar yetkazib beriladi. Talabalarga mavzuni yanada mustahkamlashlari uchun prezentatsiyalar, darsliklar, o'quv qo'llanmalari va boshqa o'quv-uslubiy materiallardan foydalanish bo'yicha ko'rsatmalar beriladi. Talabalar mavzuni o'zlashtirish darajasini tekshirish maqsadida, har bir mavzudan so'ng elektron ta'lim platformasida sinov (test) nazoratlaridan o'tadi. Shu yo'l bilan talaba o'zining mavzulardan olgan bilimini tekshirib boradi.

Amaliy va laboratoriya mashg'ulotlarida har bir mavzu bo'yicha masalalar va ko'rsatmalar bo'yicha materiallar, prezentatsiyalar, ko'rsatmalar talabalarga taqdim etiladi, shuningdek, mavzuni o'zlashtirish darajasini tekshirish maqsadida topshiriqlar beriladi. Transport umumiy kursi kursining talabalarga "Transport umumiy kursi fanidan o'quv-uslubiy majmua"da keltirilgan masalalarni mustaqil ishlash talab etiladi.

Mustaqil o'zlashtiriladigan mavzular (MT) bo'yicha talabalar tomonidan mustaqil ish tayyorlanadi. Mustaqil ta'limni tashkil etishni kafedraning yetakchi professor-o'qituvchilari tomonidan uslubiy qo'llanma ishlab chiqaladi va assistant o'qituvchi tomonidan metodik tavsiya, zaruriy ko'rsatma va bajarilishga qo'yilgan talablartalabalarga yetkaziladi. Mustaqil ta'lim oldindan belgilab qo'yilgan grafik asosida qabul qilinadi.

Ma'ruza, amaliy va laboratoriya fanlaridan auditoriya soatining 25 foizini va undan ortig'ini sababsiz qoldirgan talaba yakuniy nazoratlarga qo'yilmaydi. Mashg'ulotlarning barcha mavzularini to'la o'zlashtirgan (qayta o'zlashtirish bilan) talabalarga yakuniy nazoratda ishtirok etishga ruxsat etiladi. Talaba semestr oxirida yakuniy nazorat topshiradi. Yakuniy nazoratda test, topshiriq, yozma va og'zaki shaklda, ishda savol va topshiriqlarning umumiy hajmining 50% mustaqil ta'lim manbalaridan shaklantirilishiga alohida e'tibor beriladi.

## Talabalarni baholash



Talabalar bilimini baholash semestr va yakuniy nazorat davomida o‘qitish materiallarini o‘zlashtirish ko‘rsatkichi (test, topshiriq, yozma va og‘zaki ish natijasi)ga asoslangan.

Transport umumiy kursi kurs davomida talabalar 100 ballik tizimda baholanadi. Shundan 50 ball joriy va oraliq natijasiga (50 ballning 60 % JN, MT va 40 % ON), 50 ball esa yakuniy nazorat natijasiga ajratiladi. Joriy va oraliq ballarning umumiy natijasi 30 balldan past bo‘lgan talabalar yakuniy nazorat imtixoniga kiritilmaydi. Yakuniy nazoratda 30 va undan ko‘p ball to‘plagan talaba fanni o‘zlashtirgan hisoblanadi.

Joriy, oraliq va yakuniy nazorat ballari quyidagicha taqsimlanadi:

<b>Topshiriq</b>	<b>Maksimal ball</b>	
Topshiriq1*	4	<b>Joriy nazorat bo‘yicha maksimal 20 ball</b>
Topshiriq2*	4	
Topshiriq3*	4	
Topshiriq4*	4	
Topshiriq5*	4	
<b>Mustaqil ish</b>	<b>10</b>	<b>10</b>
<b>Oraliq nazorat bo‘yicha maksimal ball</b>	<b>20</b>	<b>20</b>
<b>Yakuniy nazorat bo‘yicha maksimal ball</b>	<b>50</b>	<b>50</b>
<b>Jami:</b>	<b>100</b>	<b>100 ball</b>

**Izoh\***

- 1.Topshiriq-**Transport rejalashtirishda , uning o‘ziga xos xususiyatlari va asosiy ko‘rsatkichlarga doir mashq va masalalar.
  - 2.Topshiriq-**Avtomobil transporti, uning o‘ziga xos xususiyatlari va asosiy ko‘rsatkichlari
  - 3.Topshiriq-** transport oqimi uning o‘ziga xos xususiyatlari va asosiy ko‘rsatkichlari.
  - 4.Topshiriq-**Har hil transport turlarini rejalashtirishda qo‘llaniladigan uslublar.
  - 5.Topshiriq-**transportni rejalashtirish va oqimni boshqarish uning o‘ziga xos xususiyatlari va rivojlanish muammolari
- Topshiriqlarning to‘liq shakli bilan <https://student.jizpi.uz/dashboard/login> havolasiga kirish orqali tanishish va yuklab olishingiz mumkin.

Yevropa kredit transfer tizimi (**ECTS — European Credit Transfer System**) talabalar o‘zlashtirishini baholash

**JADVALI**

<b>Daraja (belgi)</b>	<b>Ballar (foiz)</b>	<b>5 baholik tizimga qiyosiy taqqoslaganda</b>	<b>Izoh</b>
“A”	90-100	“5”	
“B”	80-89.9	“4”	
“C”	70-79.9		
“D”	65-69.9		
“E”	60-64.9	“3”	
“FX”	55-59.9		
“F”	0-54		

## **Asosiy va qo‘shimcha o‘quv adabiyotlar hamda axborot manbaalari**

1. B.A.Xo‘jaev “YAgona transport tizimi va har xil transportlar o‘zaro yondoshuvi”. T.”Mehnat”, 2004 y.
  2. Ester A. Hoel. «Transportation Infrastructure Engineering. A Multimodal Integration», 2011
  3. O‘zbekiston Respublikasi prezidenti SH. M.Mirziyoevning Oliy majlisga murojaati. 2020 y. 24 yanvar.
    1. Bruton M.J.; Introduction to transportation planning Hutchinson London 1971
    2. Litman T.; Introduction to Multi-Modal Transportation Planning - Principles and Practices, Victoria Transport Policy Institute 2009, [www.vtpi.org/multimodal\\_planning.pdf](http://www.vtpi.org/multimodal_planning.pdf)
    3. Planning Policy Guidance 13:Transport. TSO Norwich 2006, [www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf](http://www.communities.gov.uk/documents/planningandbuilding/pdf/155634.pdf)
    4. Integrated Transport Planning Framework. A Guide for Transport Planning, Queensland Gov. 2003, [http://www.transport.qld.gov.au/Home/Projects\\_and\\_initiatives/Plans/Integrated\\_transport\\_plans/Integrated\\_transport\\_planning\\_framework/Publication\\_integrated\\_transport\\_planning\\_framework](http://www.transport.qld.gov.au/Home/Projects_and_initiatives/Plans/Integrated_transport_plans/Integrated_transport_planning_framework/Publication_integrated_transport_planning_framework)
    5. FHWA and FTA (2007), The Transportation Planning Process Key Issues: A Briefing Book for Transportation Decisionmakers, Officials, and Staff, FHWA-HEP-07-039, FHWA and FTA , [www.planning.dot.gov/documents/briefingbook/bbook.htm](http://www.planning.dot.gov/documents/briefingbook/bbook.htm)
    6. Todd Litman (2001), “Generated Traffic; Implications for Transport Planning,” ITE Journal, Vol. 71, No. 4, (www.ite.org), April, pp. 38-47, [www.vtpi.org/gentraf.pdf](http://www.vtpi.org/gentraf.pdf)
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